



Regional Office for Latin America and the Caribbean

Annual Report 2011

Strengthening international science
for the benefit of society



About the Regional Office

To ensure that the regional priorities are reflected in the ICSU strategic plan and develop sound regional scientific programs.

About ICSU

Vision

The long-term ICSU vision is for a world where science is used for the benefit of all, excellence in science is valued and scientific knowledge is effectively linked to policy-making. In such a world, universal and equitable access to high quality scientific data and information is a reality and all countries have the scientific capacity to use these and to contribute to generating the new knowledge that is necessary to establish their own development pathways in a sustainable manner.

Mission

ICSU's mission is to strengthen international science for the benefit of society.

To do this, ICSU mobilizes the knowledge and resources of the international science community to:

- Identify and address major issues of importance to science and society.
- Facilitate interaction amongst scientists across all disciplines and from all countries.
- Promote the participation of all scientists — regardless of race, citizenship, language, political stance, or gender — in the international scientific endeavour.
- Provide independent, authoritative advice to stimulate constructive dialogue between the scientific community and governments, civil society, and the private sector.

Message from the Director of the Regional Office



2011 was marked by the relocation of the ICSU Regional Office for Latin America and the Caribbean from Brazil to Mexico. On 1 March, the new ICSU ROLAC office, located on the premises of the Mexican Academy of Sciences (AMC), was officially inaugurated. ICSU ROLAC has since then enjoyed the hospitality and support of the AMC, for which I would like to express my sincere gratitude.

One of ICSU ROLAC's milestones in 2011 was the organization of the ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean. This event is part of the preparatory process for the United Nations Conference on Sustainable Development in June 2012 in Rio de Janeiro, Brazil, in which ICSU is representing the scientific and technological community. The workshop took place in Mexico City in August and brought together more than 60 high level scientists and policy-makers, representing 20 countries and various disciplines, who discussed the future of sustainable development in Latin America and the Caribbean. The workshop recommendations were presented to the Latin American and Caribbean Regional Meeting Preparatory to Rio+20 at the headquarters of the Economic Commission for Latin America and the Caribbean (ECLAC) in Santiago de Chile.

Another important event in 2011 was the participation of the Regional Office and the Regional Committee in the 30th ICSU General Assembly in Rome, Italy in September, preceded by the 10th Regional Committee Meeting. The ICSU GA provided a platform for communication between ICSU headquarters and the three regional offices, as well as with ICSU inter-disciplinary bodies and ICSU National and Union members. In 2011, ICSU ROLAC very actively reached out to partners within the region and within the ICSU family and participated in many regional and international events highlighted in this report.

One of ICSU ROLAC's major achievements in 2011 is the successful submission of the final report of the project: "Sustainable Energy Systems for Universal Energy Access and to Mitigate Global Climate Change: Design of a Regional Program for Renewable Energy and Energy Efficiency (RE & EE) Research and Innovation Networks in Latin America and the Caribbean (LAC)" to the Inter-American Development Bank (IADB).

2012 will see three workshops and other activities related to the implementation of the science plans of ICSU ROLAC's scientific priority areas biodiversity, natural hazards, sustainable energy and mathematics education. We are looking forward to knowledge exchange, continued interaction, and technology transfer between high level scientists, policy-makers and representatives of the industrial sector in our region.

Manuel Limonta
Director of the Regional Office

Message from the Chair of the Regional Committee

2011 was a year of transition for the Regional Office and for the Regional Committee. The new secretariat was opened in March, after the relocation of the Regional Office from Brazil to Mexico. The inauguration ceremony at the Mexican Academy of Sciences was immediately followed by the 9th Regional Committee meeting. During this meeting, the Committee defined two work priorities of the Regional Office: the implementation of the science plans related to ICSU ROLAC's scientific priority areas biodiversity, natural hazards, sustainable energy, and mathematics education, as well as the organization of the ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean.

During 2011, the Regional Office, working closely with Committee members as well as with partner institutions in the region and within the ICSU family, made significant progress in the planning of workshops related to the priority areas, which will take place in 2012 and 2013. Furthermore, the Rio+20 Regional Workshop, organized in Mexico City in August, was a landmark event for ICSU ROLAC. It not only resulted in recommendations of the Latin American and Caribbean scientific and technological community to be included in the Rio+20 process, but also initiated a dialogue between high-level scientists and policy-makers in the region, which will be continued over the coming years.

ICSU ROLAC gained strength by joining forces with various organizations in the region, such as the UNESCO Regional Office for Latin America and the Caribbean, the Interamerican Network for Academies of Sciences (IANAS), and the Organization of American States (OAS). Furthermore, the Regional Office continued to collaborate closely with ICSU headquarters, the ICSU Regional Offices for Africa and for Asia and the Pacific, as well as with ICSU Inter-disciplinary bodies, National and Union Members to strengthen relations with the ICSU family.

2011 also brought about some changes to the composition of the Regional Committee. I would like to extend a warm welcome to José Luis Morán López who joined the Committee as ex officio member, representing the Mexican Academy of Sciences as host of ICSU ROLAC. María del Carmen Samayoa (Guatemala), Enrique Lessa (Uruguay) and Tara Dasgupta (Jamaica) finished their second term as Committee Members and according to ICSU rules could not be reelected. I would like to express my gratitude for their continuous dedication to ICSU ROLAC over the past five years and for their commitment to strengthen international science for the benefit of society in Latin America and the Caribbean.

José Antonio de la Peña
Chair of the Regional Committee

Photos: Manuel Limonta and José Antonio de la Peña



Relocation ICSU ROLAC

Inauguration ICSU ROLAC in Mexico City

Inauguration ICSU ROLAC in Mexico City

On 1 March 2011, the ICSU Regional Office for Latin America and the Caribbean (ROLAC) was officially inaugurated in Mexico City on the premises of the Mexican Academy of Sciences (AMC).

The new ICSU ROLAC offices were formally opened by representatives of ICSU, the Mexican Academy of Sciences (AMC), and the Mexican National Council for Science and Technology (CONACyT). ROLAC relocated to Mexico following the completion of the three-year agreement with the Brazilian Academy of Sciences in Rio de Janeiro. The inauguration ceremony was opened by Arturo Menchaca, President of the Mexican Academy of Sciences, followed by presentations by Deliang Chen, ICSU Executive Director; Alice Abreu, the former Regional Director; and Manuel Limonta, the new Regional Director. Juan Carlos Romero, General Director of CONACyT, formally closed the ceremony.



Photos: 1. The former and the new ROLAC Director:
Alice Abreu and Manuel Limonta
2. Cutting the Ribbon

Regional Committee

9th Meeting of the Regional Committee

10th Meeting of the Regional Committee

Composition ICSU Regional Committee

9th Meeting of the Regional Committee

From 1-2 March, 2011, the ICSU Regional Committee for Latin America and the Caribbean held their 9th meeting at the Mexican Academy of Sciences in Mexico City. The agenda included the definition of future actions and work priorities for the new office in Mexico after the relocation from Brazil, as well as strategies for the implementation of the science plans of the four scientific priority areas biodiversity, natural

hazards, sustainable energy, and mathematics education. Furthermore, the organization of the ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean in the context of ICSU's activities in preparation of the 2012 United Nations Conference on Sustainable Development was discussed and considered a work priority by the Regional Committee.



Photo: Participants of the 9th Meeting of the ICSU Regional Committee for Latin America and the Caribbean

10th Meeting of the Regional Committee

The 10th meeting of the ICSU Regional Committee for Latin America and the Caribbean took place in September 2011 in Rome, Italy, prior to the ICSU General Assembly. After the meeting, Committee Members had the opportunity to participate in the ICSU GA and strengthen the presence of the Latin American and Caribbean Region by representing their respective countries. Items discussed at the Committee Meeting included the activities of the Regional Office since its relocation to Mexico, the strategic approach to implement the Science Plans of the four scientific priority areas, as well as the outcome of the ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean. The Committee welcomed José Luis Morán López as new ex officio member to ICSU RCLAC, representing the Mexican Academy of Sciences as host of ICSU ROLAC.

At the end of the second day of the meeting, a reception was organized to thank María del Carmen Samayoa (Guatemala), Tara Dasgupta (Jamaica) and Enrique Lessa (Uruguay), who ended their second term as Committee members in December 2011, for their scientific advice and for their continuous dedication to ICSU RCLAC.



Photos: 1. Sérgio Pastrana, Arturo Martínez, Mahabir Gupta and María del Carmen Samayoa
2. 10th Meeting of the Regional Committee

Composition ICSU Regional Committee

RCLAC 2011 Members

José Antonio de la Peña, Mexico – Chair (2006-2012)

Tara Dasgupta, Jamaica (2006-2011)

Mahabir Gupta, Panama (2006-2012)

Patricio Felmer, Chile (2010-2012)

Enrique P. Lessa, Uruguay (2006-2011)

Arturo J. Martínez, Argentina (2010-2012)

María del Carmen Samayoa, Guatemala (2006-2011)

Elena Vigil, Cuba (2006-2012)

Ex officio

José Luis Morán López (from September 2011 - AMC)

Sérgio Pastrana (ICSU Executive Board)

Deliang Chen (ICSU Executive Director)

Manuel Limonta (ICSU ROLAC Director)



Photo: María Teresa Viramontes, Patricio Felmer, Carthage Smith, Sérgio Pastrana, José Luis Morán López, María del Carmen Samayoa, Manuel Limonta, Enrique Lessa, Elena Vigil, José Antonio de la Peña, Mahabir Gupta, Tara Dasgupta, Kerstin Schmidt-Verkerk and Arturo J. Martínez

Scientific Priority Areas

Scientific Priority Areas

In 2011, the four science plans related to the ICSU ROLAC scientific priority areas: biodiversity, natural hazards, sustainable energy, and mathematics education were printed in English and Spanish, thanks to the generous support of CONACyT Mexico. The documents are also available for download in English and Spanish from the ICSU ROLAC website: www.icsu.org/latin-america-caribbean.



Scientific Priority Areas

After the publication of the four science plans in 2010, the implementation of the ICSU ROLAC scientific priority areas was one of the work priorities of the Regional Office in 2011. During 2012 and 2013 different workshops related to the four priority areas biodiversity, natural hazards, sustainable energy, and mathematics education will be organized, which address the priorities and objectives identified in the science plans.

Priority Area: Biodiversity

The ICSU ROLAC biodiversity science plan identified several research and policy priorities for the LAC region, including the evaluation of biodiversity and ecosystem services, the consolidation of a network on ecological observatories, the development of a regional-scale assessment of the impacts of invasive species, and the transference of biodiversity and biocultural knowledge into sustainable economic activities.



Priority Area: Natural Hazards

The ICSU ROLAC science plan on understanding and managing risk associated with natural hazards identified the need for more inter- and trans-disciplinary research. The objectives are to identify significant natural hazards processes and patterns, understand the factors and processes that contribute to the social construction of risk, identify ways to evaluate risks objectively and the ways risk are socially analyzed, and understand decision-making processes in the context of risks.



Photos: 1 Birds. Mexico (José Carlos Romay Wisbrun)
2 Landscape. Zacatecas, Mexico (Kerstin Schmidt-Verkerk)

Priority Area: Mathematics Education

The ICSU ROLAC science plan on mathematics education in LAC concluded that in this region children are not being taught at the level they will need to live their lives and work productively, and that children's mathematical knowledge is poor in relation to the international average.

ICSU ROLAC co-sponsors the regional workshop on mathematics education: 'Matemáticos en la Educación Matemática Escolar' to be held in Santiago de Chile, Chile from 11-13 January, 2012. José Antonio de la Peña (Mexico), Chair of ICSU ROLAC and member of the Scientific Committee of the workshop, and Patricio Felmer (Chile), member of ICSU ROLAC and member of the Organizing Committee of the workshop will give lectures during the event.

The objectives of the workshop are the exchange of experiences of mathematicians involved in mathematics education, as well as the creation of networks, the identification of good practices and the analysis of the impact of already implemented initiatives in this field.

Matemáticos en la Educación Matemática Escolar
En la búsqueda de impacto en nuestra realidad educacional

Comité Científico
Rafael Correa (ICIAE, Santiago, Chile)
José Antonio de la Peña (CIMAT, Guanajuato, México)
Jaime San Martín (CMM, Santiago, Chile)
Marcelo Viana (IMPA, Rio de Janeiro, Brazil)

Comité Organizador
Patricio Felmer (Universidad de Chile)
Renato Lewin (Pontificia Universidad Católica de Chile)
Carlos Pérez (Universidad de Concepción)
Cristián Reyes (Universidad de Chile)
Leonor Varas (Universidad de Chile)

Objetivos

- Intercambiar experiencias de matemáticos en educación matemática a nivel escolar de primaria y secundaria, tanto con profesores, como con alumnos, responsables de políticas públicas y autoridades educacionales.
- Crear redes de colaboración, identificar buenas prácticas y analizar el impacto de las iniciativas llevadas a cabo.

Orientado principalmente a:

- Políticas públicas
- Política de textos escolares
- Currículo nacional
- Formación de profesores
- Uso de TIC en matemática de implementación masiva
- Olimpiadas y torneos nacionales e internacionales de matemática

Invitados

Hilario Alencar (Brasil)	Pablo Dattner (Chile)	Raymond McEachin (Jamaica)
Roberto Araya (Chile)	Guido del Pino (Chile)	Arturo Mena (Chile)
Lilliam Álvarez Díaz (Cuba)	Sueley Druck (Brazil)	Angel Pineda (USA, Honduras)
Carlos Bosch (México)	Solomon Friedberg (USA)	Mario Ponce (Chile)
Luis Cáceres-Duque (Puerto Rico)	Rafael Labarca (Chile)	Arturo Ramírez (México)
Carlos Canjura (El Salvador)	Mario Marín (Cesta Rica)	Carman Sampedro (Colombia)
Antonía Caffure (Argentina)	Roberto Markarian (Uruguay)	Clara Helens Sánchez (Colombia)
Paulo Cezar Pinto Carvalho (Brasil)	Salomé Martínez (Chile)	Rafael Sánchez (Venezuela)
Victor Cortés (Chile)	William McCallum (USA)	Max Tapia (México)

Santiago de Chile
11-13 Enero 2012

Patrocinantes

ICSU
International Council for
Scientific and Technical
Cooperation

CMM
Center for
Mathematical
Modeling

ciae
Centro de Investigación en
Modelado de Aplicaciones
Matemáticas de Chile

CIMAT

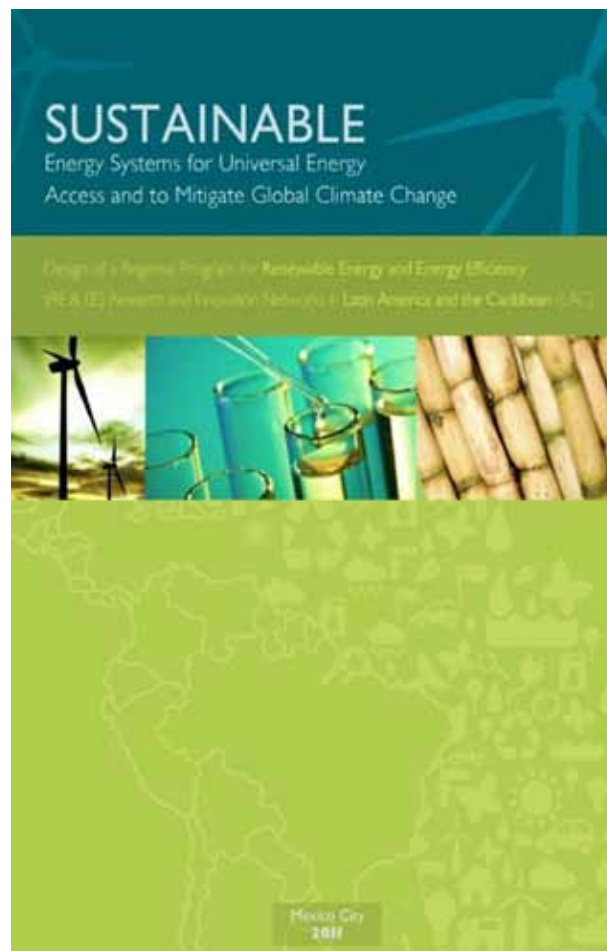
Proposal for the Establishment of an Inter-American Research Network in Sustainable Energy: Design of a Regional Program

Since December 2010, an international working group linked to ICSU ROLAC had developed a project proposal on sustainable energy and energy efficiency to be presented to the Inter-American Development Bank (IADB). The working group met twice in 2011, the first meeting took place in Mexico City, Mexico from 8-9 February, and the second meeting was held in Bogotá, Colombia from 25-27 April.

On 2 June, 2011, Décio Gazzoni, Chair of the Working Group, and Manuel Limonta, Regional Director, submitted the Final Report of the proposal to the IADB officials, representing the end of the project: "Sustainable Energy Systems for Universal Energy Access and to Mitigate Global Climate Change: Design of a Regional Program for Renewable Energy and Energy Efficiency (RE & EE) Research and Innovation Networks in Latin America and the Caribbean (LAC)"



Photo: First meeting of the working group of experts, Mexico City, February 2011: Arturo Morales, Gabriel Blanco, Isaias Macedo, Anibal Borroto, Manuel Limonta and Décio Gazzoni



Meeting participants:

Décio Gazzoni (Brazil) – Chair Working Group of Experts
Gabriel Blanco (Argentina) – Member Working Group of Experts
Anibal Borroto (Cuba) – Member Working Group of Experts
Isaias Macedo (Brazil) – Member Working Group of Experts
Arturo Morales (Mexico) – Member Working Group of Experts
Manuel Limonta (Mexico) – Director Regional Office

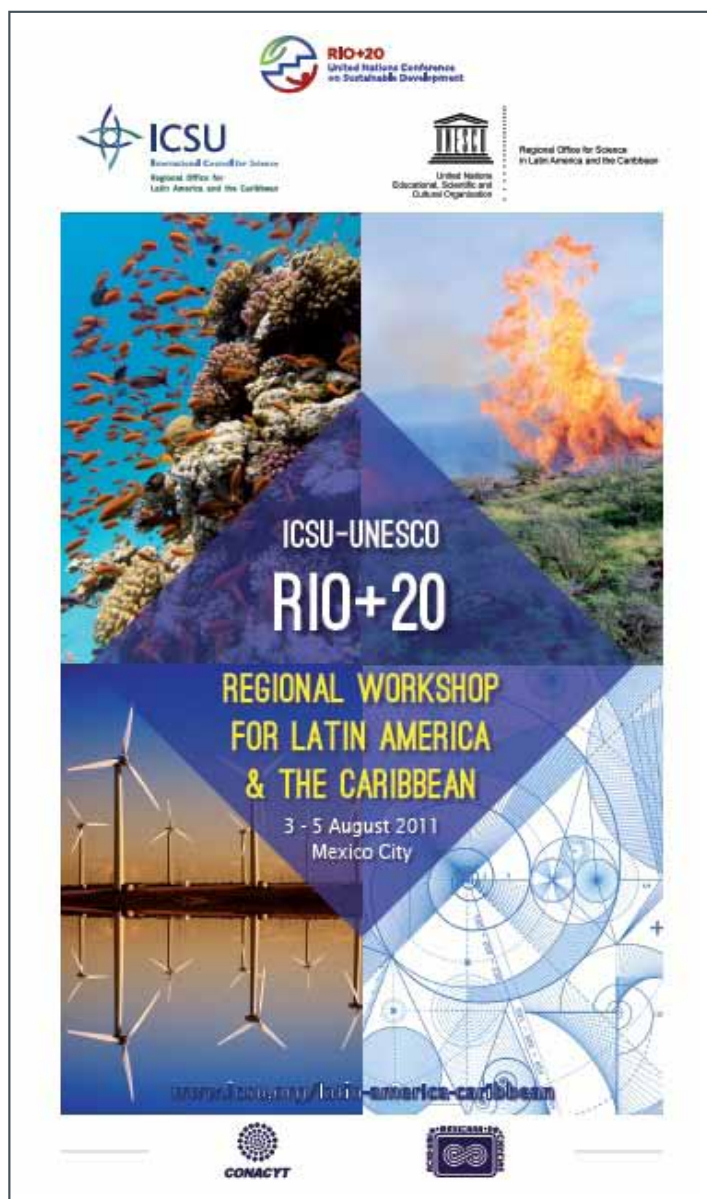
ICSU ROLAC and Rio+20

ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for LAC
Rio+20 Regional Preparatory Meeting for LAC

ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for LAC

The ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean was held on the premises of the Mexican Academy of Sciences in Mexico City, Mexico from 3-5 August, 2011.

The workshop was organized by the ICSU and UNESCO Regional Offices for Latin America and the Caribbean, in cooperation with the World Federation of Engineering Organizations (WFEO) and the International Social Science Council (ISSC). It was one of five Rio+20 regional science and technology workshops being organized by ICSU and UNESCO in 2011. The workshop was part of the process leading to the Rio+20 United Nations Conference on Sustainable Development in Rio de Janeiro in June 2012. ICSU represents the international scientific community in this process. More information on the activities ICSU is organizing for Rio+20 can be found at: www.icsu.org/rio20/home.



ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for LAC

The workshop was attended by more than 60 high level scientists, representing 20 countries and various disciplines, who debated the future of sustainable development in Latin America and the Caribbean. In plenary sessions and break-out groups the workshop addressed the main themes of Rio+20:

- green economy in the context of sustainable development and poverty eradication;
- the institutional framework for sustainable development;
- new and emerging challenges.

The workshop report as well as the recommendations are online at:

www.icsu.org/latin-america-caribbean/what-we-do/workshops/rio-20-regional-workshop-for-latin-america-and-the-caribbean.



Photo: Participants of the ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean

Rio+20 Regional Preparatory Meeting for LAC



The Latin American and Caribbean Regional Meeting Preparatory to the United Nations Conference on Sustainable Development was held at the headquarters of the Economic Commission for Latin America and the Caribbean (ECLAC) in Santiago de Chile, from 7 to 9 September, 2011.

The recommendations of the ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean were available as a handout at this meeting.

The Chief Rapporteur of the workshop, Arturo J. Martínez, and the ICSU Regional Director for Latin America and the Caribbean, Manuel Limonta, represented ICSU. They gave two presentations on behalf of the Scientific and Technological Community Major Group. One presentation was delivered in the inauguration plenary and one in the closing plenary session.

Further information on the meeting can be found at the ECLAC website: www.eclac.cl/rio20

Photo: Manuel Limonta (Director ICSU Regional Office for Latin America and the Caribbean), Jorge Grandi (Director UNESCO Regional Bureau for Science in Latin America and the Caribbean) and Arturo J. Martínez (Chief Rapporteur of the ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean) at ECLAC in Santiago de Chile

Reaching Out

Strengthening Relations with the ICSU Family

Scientific Unions Regional Contacts

Reaching Out to International Organizations

Strengthening Relations with the ICSU Family

In 2011, ICSU ROLAC continued to interact with various members of the ICSU family including ICSU headquarters, the Regional Offices for Africa and for Asia and the Pacific, as well as ICSU inter-disciplinary bodies, national members and union members. The 30th ICSU General Assembly in Rome, Italy in September, 2011 provided an excellent platform to discuss thematic synergies and to plan future collaborations.



21st Meeting of ICSU's Committee on Scientific Planning and Review (CSPR), Paris, France, 30-31 March, 2011 (Mahabir Gupta and Kerstin Schmidt-Verkerk)

International Workshop on Access to Genetic Resources and the Sharing of Benefits Arising from their Utilization (ABS), Berne, Switzerland, 27 May, 2011 (Mahabir Gupta)

Meeting of ICSU Officers, Regional Chairs and Directors, 24 September, 2011, Rome, Italy (Manuel Limonta and Kerstin Schmidt-Verkerk)

ICSU Executive Board Meeting, 25 September, 2011, Rome, Italy (Manuel Limonta)

30th ICSU General Assembly in Rome, Italy, 24 September-1 October, 2011 (Regional Committee and Regional Office)

Integrated Research on Disaster Risk (IRDR) Conference 2011 "Disaster Risk: Integrating Science & Practice" and IRDR SC Meeting, Beijing, China, 27 October-3 November, 2011 (Kerstin Schmidt-Verkerk)

Photo: Manuel Limonta speaking at the ICSU General Assembly in Rome, Italy in September 2011

Scientific Unions Regional Contacts

The relations with the ICSU Scientific Union Members continued to be strengthened in 2011, and 14 Unions have now appointed a contact person for Latin America and the Caribbean.

SCIENTIFIC UNIONS REGIONAL CONTACTS

IAU - International Astronomical Union - Marta Rovira

IGU - International Geographical Union - Irasema Alcántara-Ayala

IMU - International Mathematical Union - Marcelo Viana

IUGG - International Union of Geodesy and Geophysics - Luiz Paulo Souto Fortes

IUGS - International Union of Geological Science - Marta Mantovani

IUPAB - International Union for Pure and Applied Biophysics - Marcelo Morales

IUPAC - International Union of Pure and Applied Chemistry - Ram S. Lamba

IUPAP - International Union of Pure and Applied Physics - Carmen Cisneros

IUPsyS - International Union of Psychological Sciences - Juan Jose Sanchez Sosa

IUTAMX - International Union of Theoretical and Applied Mechanics - Luiz Bevilacqua

URSI - International Union of Radio Science - Emanuel Costa

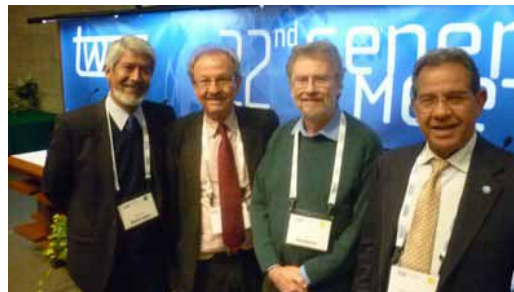
IUFRO - International Union of Forest Research Organizations - Bastiaan Louman

ISPRS – Internl. Society for Photogrammetry and Remote Sensing - Myriam Ardila-Torres

IPY - International Polar Year - Miriam Hebling Almeida

Reaching Out to International Organizations

In 2011, ICSU ROLAC attended Meetings of various Regional and International Organizations, including the Organization of American States (OAS), the Academy of Sciences for the Developing World (TWAS) and the InterAmerican Network of Academies of Sciences (IANAS).



Third Meeting of the Working Group on Energy of the InterAmerican Network of Academies of Sciences (IANAS) -Bogotá, Colombia, 9-10 June, 2011 (Manuel Limonta)

International Symposium of the Latin American Network of Biological Sciences - Santiago, Chile, 29-30 August, 2011 (Manuel Limonta)

Presentation by Manuel Limonta at the Energy Research Center (CIE) of the UNAM -Temixco, Mexico, 2 September, 2011

II. Forum on Cutting Edge Sciences – New Paradigms and Emerging Themes for Life Sciences at the Metropolitan University of Mexico - Mexico City, Mexico, 4-7 October, 2011 (Manuel Limonta)

First Workshop for Mexico, Central America and the Caribbean: Energy Transition and Development of Alternative Energies - Cancun, Mexico, 31 October-2 November, 2011 (Manuel Limonta)

Third Meeting of Ministers and Authorities on Science and Technology of the Organization of American States (OAS) in the Framework of the Council for Integral Development (CIDI) - Panama City, Panama, 17-18 November, 2011 (Kerstin Schmidt-Verkerk)

Academy of Sciences for the Developing World (TWAS) 22nd General Meeting - Trieste, Italy, 20-24 November, 2011 (Manuel Limonta)

Symposium on Advances and Perspectives of Science in Brazil, Latin America and the Caribbean at the Brazilian Academy of Sciences - Rio de Janeiro, Brazil, 30 November-2 December, 2011 (Manuel Limonta)

10th TWAS-ROLAC Young Scientists Conference - Tobago, Trinidad and Tobago, 7-9 December, 2011 (Manuel Limonta)

Photo: José Luis Morán López, Jacob Palis, Luiz Davidovich and Manuel Limonta at the TWAS 22nd General Meeting in Trieste, Italy in November, 2011

The Regional Office

Secretariat

Financial Summary

Secretariat

The ICSU ROLAC Secretariat is hosted by the Mexican Academy of Sciences in Mexico City, Mexico. Under the leadership of the Regional Director Manuel Limonta, the Secretariat coordinates and implements the scientific activities of the Regional Committee. The Secretariat also acts as liaison to ICSU headquarters in Paris.

ICSU Regional Office for Latin America and the Caribbean (ROLAC)

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Maria Teresa Viramontes

secretariat@icsu-latin-america-caribbean.org

COMMUNICATION OFFICER (since December 2011)

Danita Garcia



Photo: Maria Teresa Viramontes, Manuel Limonta and Kerstin Schmidt-Verkerk

Financial Summary

ICSU ROLAC's main funding in 2011 came from the National Council on Science and Technology (CONACyT) of Mexico and from ICSU headquarters. The contribution from CONACyT Mexico was earmarked for salaries as well as Regional Committee Meetings. The part of the 2011 budget not spent on staff expenses of about 100,000 USD will be used for salaries in 2012. ICSU and CONACyT funding in 2011 was fundamental to support the activities, including travel and accommodation, of ICSU ROLAC staff and of the Regional Committee Members. The Mexican Academy of Sciences (AMC) hosts ICSU ROLAC since its relocation to Mexico and provides the infrastructure as well as office supplies, which are crucial for the functioning of the office.

Financial Summary 2011	
	Credit USD
CONACyT	\$ 307,692
ICSU	\$ 46,791
Total	\$ 354,483
Expenses	
Meetings RCLAC	
RCLAC travel	\$ 31,166
RCLAC accommodation	\$ 27,059
Workshop on Mathematics Educations	
Workshop travel	\$ 10,000
ROLAC Expenses	
Staff	\$ 118,404
Taxes and obligations	\$ 21,995
Editing and printing	\$ 7,160
Shipments	\$ 2,764
Secretariat travel expenses	\$ 9,758
Total Expenses	\$ 228,306

Additional project funding

ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for LAC

ICSU headquarters provided financial resources to cover the organization of the ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean. The Mexican Academy of Sciences (AMC) generously hosted the event on its premises and provided the infrastructure, as well as logistical and technical support.

ICSU-UNESCO Rio+20 Regional Science and Technology Workshop for Latin America and the Caribbean	
	Credit USD
ICSU	\$ 40,106
Expenses	
ICSU-UNESCO Rio+20 Regional Workshop for LAC	
Travel	\$ 6,934
Accommodation and local transportation	\$ 8,212
Supplies and printing	\$ 401
Translation	\$ 2,488
Meals and welcome dinner	\$ 8,695
Total Expenses	\$ 26,730

IADB Energy Project

The Inter-American Development Bank (IADB) financed the project "Sustainable Energy Systems for Universal Energy Access and to Mitigate Global Climate Change".

IADB Energy Project	
	Credit USD
IADB	\$ 60,000
Expenses	
IADB Energy Project	
Travel	\$ 20,589
Accommodation	\$ 12,364
Editing	\$ 1,550
External consultancy	\$ 25,000
Total Expenses	\$ 59,503

The International Council for Science (ICSU)

Benefits of Joining ICSU

ICSU Interdisciplinary Bodies

ICSU Scientific Unions

ICSU Scientific Associates

ICSU National Members

Benefits of Joining ICSU

The benefits of membership in ICSU are manifold and Members make greater or lesser use of the opportunities available to them as they wish. The main difference between full National membership and that of Associates status is that Members have voting rights at the General Assembly and thus help determine ICSU's future direction.

- All Members receive copies of ICSU publications: the electronic newsletter ICSU Insight, Annual Reports, as well as any other publications or series of publications produced.
- Members have access to the Member Zone on the ICSU website and thus to documents not made available to the general public and they can search the ICSU database. Members also benefit from access to different committees of ICSU, for example, the Committee on Freedom and Responsibility in the conduct of Science which, inter alia, helps solve visa problems for scientists wishing to attend scientific meetings and gives advice to organizers of international meetings. Even more importantly, Members

gain access to the global scientific community and to the enormous network of scientists comprising the membership of ICSU, and the prestige provided by the ICSU umbrella.

- ICSU's International Scientific Unions and National Scientific Members (National Academies of Science or National Research Councils for the most part) meet every three years in the ICSU General Assembly. Members get an excellent cross-discipline opportunity for the exchange of ideas and also get access to a wide spectrum of scientific expertise. This enables Members to address major international, interdisciplinary issues, which they could not undertake alone.

For further information on the range of ICSU's activities, see the ICSU interactive website: www.icsu.org. Since March 2011, the ICSU ROLAC website has been integrated into the ICSU global website. ICSU ROLAC's activities are highlighted at www.icsu.org/latin-america-caribbean.

ICSU Interdisciplinary Bodies

The Interdisciplinary Bodies of ICSU bring together different scientific disciplines to address scientific issues of international relevance that are of interest to ICSU Members. Some of these bodies are co-sponsored with other organizations. Interdisciplinary Bodies as at 31 December 2011:

Thematic Bodies

Committee on Space Research (COSPAR)
Integrated Research on Disaster Risk (IRDR)
Programme on Ecosystem Change and Society (PECS)
Scientific Committee on Antarctic Research (SCAR)
Scientific Committee on Oceanic Research (SCOR)
Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)

Global Environmental Change Programmes

DIVERSITAS: An International Programme of Biodiversity Science
International Geosphere-Biosphere Programme (IGBP)
International Human Dimensions Programme on Global Environmental Change (IHDP)
World Climate Research Programme (WCRP)

Monitoring/Observation Bodies

Global Climate Observing System (GCOS)
Global Ocean Observing System (GOOS)
Global Terrestrial Observing System (GTOS)

Data and Information Bodies

Committee on Data for Science and Technology (CODATA)
International Network for the Availability of Scientific Publications (INASP)
Scientific Committee on Frequency Allocations for Radio Astronomy and Space Science (IUCAF)
World Data System (WDS)

ICSU Scientific Unions

The 30 international Scientific Union Members provide the disciplinary backbone of ICSU. They play a central role in bringing together scientists from all parts of the world to consider the issues of particular interest to individual disciplines. Scientific Union Members as at 31 December 2011:

International Astronomical Union (IAU)
International Brain Research Organization (IBRO)
International Geographical Union (IGU)
International Mathematical Union (IMU)
International Union for Quaternary Research (INQUA)
International Society for Photogrammetry and Remote Sensing (ISPRS)
International Union of Anthropological and Ethnological Sciences (IUAES)
International Union of Biochemistry and Molecular Biology (IUBMB)
International Union of Biological Sciences (IUBS)
International Union of Crystallography (IUCr)
International Union of Food Science and Technology (IUFoST)
International Union of Forest Research Organizations (IUFRO)
International Union of Geodesy and Geophysics (IUGG)
International Union of Geological Sciences (IUGS)
International Union of History and Philosophy of Science (IUHPS)
International Union of Immunological Societies (IUIS)
International Union of Materials Research Societies (IUMRS)
International Union of Microbiological Societies (IUMS)
International Union of Nutritional Sciences (IUNS)
International Union for Pure and Applied Biophysics (IUPAB)
International Union of Pure and Applied Chemistry (IUPAC)
International Union of Pure and Applied Physics (IUPAP)
International Union for Physical and Engineering Sciences in Medicine (IUPESM)
International Union of Basic and Clinical Pharmacology (IUPHAR)
International Union of Physiological Sciences (IUPS)
International Union of Psychological Science (IUPsyS)
International Union of Soil Sciences (IUSS)
International Union of Theoretical and Applied Mechanics (IUTAM)
International Union of Toxicology (IUTOX)
Union Radio Scientifique Internationale (URSI)

ICSU Scientific Associates

Scientific Associates as at 31 December 2011:

Academy of Sciences for the Developing World (TWAS)
Academia de Ciencias de América Latina (ACAL)
Engineering Committee on Oceanic Resources (ECOR)
Federation of Asian Scientific Academies and Societies (FASAS)
International Arctic Science Committee (IASC)
International Association of Hydraulic Engineering and Research (IAHR)
International Cartographic Association (ICA)
International Commission for Acoustics (ICA)
International Commission for Optics (ICO)
International Council for Laboratory Animal Science (ICLAS)
International Council for Scientific and Technical Information (ICSTI)
International Federation for Information Processing (IFIP)
International Federation of Library Associations and Institutions (IFLA)
International Federation of Societies for Microscopy (IFSM)
International Federation of Surveyors (FIG)
International Foundation for Science (IFS)
International Institute for Applied Systems Analysis (IIASA)
International Union for Vacuum Science, Technique and Applications (IUVSTA)
International Water Association (IWA)
Pacific Science Association (PSA)
Society for Social Studies of Science (4S)
Union Internationale de Spéléologie (UIS)

ICSU National Members

National Members as of 31 December 2011.

* National Associates

** National Observers

Members from Latin America and the Caribbean are highlighted.

Albania • Academy of Sciences

Angola • Foundation of Science and Development

Argentina • National Scientific and Technological Research Council

Armenia • National Academy of Sciences of the Republic of Armenia

Australia • Australian Academy of Science

Austria • Die Osterreichische Akademie der Wissenschaften

Azerbaijan** • Azerbaijan National Academy of Sciences

Bangladesh • Bangladesh Academy of Sciences

Belarus** • National Academy of Sciences

Belgium • Royal Academies for Science and the Arts of Belgium

Bolivia** • Academia Nacional de Ciencias de Bolivia

Bosnia & Herzegovina: ANUBiH • Academy of Sciences and Arts of Bosnia and Herzegovina

Bosnia & Herzegovina: ANURS • Academy of Sciences and Arts of the Republic of Srpska

Botswana • Ministry of Infrastructure Science and Technology

Brazil • Academia Brasileira de Ciências

Bulgaria • Bulgarian Academy of Sciences

Burkina Faso • Centre National de la Recherche Scientifique et Technologique

Cameroon • Cameroon Academy of Sciences

Canada • National Research Council of Canada

Caribbean*¹ • Caribbean Academy of Sciences

Chile • Academia Chilena de Ciencias

China: CAST • China Association for Science and Technology

China: Taipei • Academy of Sciences located in Taipei

Colombia • Academia Colombiana de Ciencias Exactas, Fisicas y Naturales

¹ Covering the following: Antigua and Barbuda, Bahamas, Barbados, Dominica, Grenada, Guyana, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, and Trinidad and Tobago.

Costa Rica • Academia Nacional de Ciencias
Côte d'Ivoire • Académie des Sciences, des Arts, des Cultures d'Afrique et des Diasporas
Africaines
Cuba • Academia de Ciencias de Cuba
Czech Republic • Academy of Sciences of the Czech Republic
Denmark • Royal Danish Academy of Sciences and Letters
Dominican Republic • Academy of Sciences of the Dominican Republic
Egypt • Academy of Scientific Research and Technology
Estonia • Estonian Academy of Sciences
Ethiopia • Ethiopian Science and Technology Agency
Finland • Delegation of the Finnish Academies of Science and Letters
France • Académie des Sciences
Georgia* • Georgian Academy of Sciences
Germany • Deutsche Forschungsgemeinschaft
Ghana** • Ghana Academy of Arts & Sciences
Greece • Academy of Athens
Guatemala* • Academia de Ciencias Médicas Físicas y Naturales de Guatemala
Hungary • Hungarian Academy of Sciences
India • Indian National Science Academy
Indonesia • Indonesian Institute of Sciences
Iran • University of Tehran
Iraq • Ministry of Science and Technology
Ireland • Royal Irish Academy
Israel • Israel Academy of Sciences and Humanities
Italy • Consiglio Nazionale delle Ricerche
Jamaica • Scientific Research Council
Japan • Science Council of Japan
Jordan* • Royal Scientific Society
Kazakhstan* • National Academy of Sciences of the Republic of Kazakhstan
Kenya • Kenya National Academy of Sciences
Korea, DPR** • State Academy of Sciences
Korea, Republic of • National Academy of Sciences of the Republic of Korea
Lao PDR • Lao National Science Council
Latvia • Latvian Academy of Sciences

Lebanon National Council for Scientific Research
Lesotho Department of Science and Technology
Lithuania • Lithuanian Academy of Sciences
Luxembourg • Fonds National de la Recherche
Macedonia, Rep. of • Macedonian Academy of Sciences and Arts
Madagascar* • Ministère de l'Enseignement Supérieur et de la Recherche Scientifique
Malawi • National Research Council of Malawi
Malaysia • Academy of Sciences Malaysia
Mauritius • Mauritius Research Council
Mexico • Academia Mexicana de Ciencias
Moldova** • Academy of Sciences of Moldova
Monaco • Centre Scientifique de Monaco
Mongolia • Mongolian Academy of Sciences
Montenegro • Montenegrin Academy of Sciences and Arts
Morocco • Centre National de la Recherche Scientifique et Technique
Mozambique • Scientific Research Association of Mozambique
Namibia • Ministry of Education: Directorate of Research, Science and Technology
Nepal • Royal Nepal Academy of Science and Technology
Netherlands • Koninklijke Nederlandse Akademie van Wetenschappen
New Zealand • Royal Society of New Zealand
Nigeria • Nigerian Academy of Science
Norway • Norwegian Academy of Sciences and Letters
Pakistan • Pakistan Association for the Advancement of Science
Panama • Universidad de Panama
Peru • Academia Nacional de Ciencias
Philippines • National Research Council
Poland • Polish Academy of Sciences
Portugal • Academia das Ciencias de Lisboa
Romania • Academia Româna
Russian Federation • Russian Academy of Sciences
Rwanda** • Kigali Institute of Science and Technology
Saudi Arabia • King Abdulaziz City for Science and Technology
Senegal • Association des Chercheurs Sénégalais
Serbia • Serbian Academy of Sciences and Arts

Seychelles • Seychelles Centre for Marine Research and Technology
Singapore • Singapore National Academy of Science
Slovak Republic • Slovak Academy of Sciences
Slovenia* • Slovenian Academy of Sciences and Arts
South Africa • National Research Foundation (NRF)
South Pacific² • University of the South Pacific
Spain • Ministerio de Ciencia y Innovacion
Sri Lanka • National Science Foundation
Sudan** • National Centre for Research
Swaziland • National Research Council
Sweden • Royal Swedish Academy of Sciences
Switzerland • Swiss Academy of Sciences
Tajikistan** • Academy of Sciences of the Republic of Tajikistan
Tanzania • Tanzania Commission for S&T
Thailand • National Research Council of Thailand
Togo • Chancellerie des Universités du Togo
Tunisia* • Université Tunis El Manar
Turkey • Scientific and Technical Research Council of Turkey
Uganda • Uganda National Council for Science and Technology
Ukraine • National Academy of Sciences
United Kingdom • Royal Society
USA • National Academy of Sciences
Uruguay** • Comisión Consejo Nacional de Innovación Ciencia y Tecnología
Uzbekistan** • Uzbekistan Academy of Sciences
Vatican City State** • Pontificia Academia Scientiarum
Venezuela** • Fondo Nacional de Ciencia, Tecnología e Innovación
Vietnam** • Vietnam Union of Science and Technology Associations
Zambia • Zambia Academy of Sciences
Zimbabwe • Research Council of Zimbabwe

² Covering the following: Cook Islands, Fiji, Kiribati, Marshall Islands Nauru, Niue, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu and Samoa.

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